PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY			/ 交領日
To: OKABE Masao		PCT	四年国民 4.
No.602,Fuji Bldg., 2-3,Marunouchi 3-chome, Chiyoda-ku,Tokyo		RITTEN OPINION OF TH	
1000005 Japan		(PCT Rule 43bis.1)	
	Date of mailing (day/month/year)	05. 4. 2005	5
Applicant's or agent's file reference 10010612WO01	FOR FURTHER A	ACTION See paragraph 2 below	
International application No. PCT/JP2005/003253 International filing date 22.02		Priority date (day/month/yea	•
International Patent Classification (IPC) or both national classific Int.Cl ' H04L9/08, H04L9/32	ation and IPC		
Applicant CANON KABUSHIKI KAISHA			
1. This opinion contains indications relating to the following ite Box No. I Basis of the opinion	and to novelty, inventional and to novelty, inventional application all application will left that this does not aportified the International control of the IPEA, the opinion opin	velty, inventive step or industrate to be a written ply where the applicant choos al Bureau under Rule 66.1 bis the applicant is invited to sub of 3 months from the date of r	ial applicability; a opinion of the ses an Authority (b) that written mit to the IPEA
3. For further details, see notes to Form PCT/ISA/220.	· .		
Date of completion of this opinion 17.03	.2005		
Name and mailing address of the ISA/JP	Authorized officer	5	M 3365
Japan Patent Office	HIROMASA	NAKAZATO L	
3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan	Telephone No. +81	-3-3581-1101 Ext. 359	97 .

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2005 / 003253

Bo	r No. I	Basis of the	e opinion							
	With reg	ard to the Isner	age this oni	nion has been e	stablished	on the basis	of the intern	national applic	tion in the lang	uage in
••	_			ndicated under			•	••		
	Thi	is opinion has t	een establish	ed on the basis	of a transl	ation from th	he original l	anguage into th	e following lan	guage
				s the language	of a transla	tion turnishe	ed for the pu	irposes of inter	national search	(miger
	Rul	les 12.3 and 23.	.1(b)).			•				
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2	With reas	ard to any nucl	entide and/o	r amino acid :	seavence d	isclosed in t	the internati	onal applicatio	n and necessar	y to the
	claimed in	vention, this of	pinion has bee	en established o	n the basis	of:		: .		
	a. type of	material	•	·						
		a sequence li	sting			:		•	•	
		table(s) relat	ed to the seq	uence listing	;					
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•	b. format	of material		•	• • • • •				•	
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3.	n ln a	addition, in the	case that mo	re than one ve	rsion or co	y of a seque	ence listing	and/or table re	lating thereto h	as been
	filed in the	d or furnished, he application :	the required as filed or do	statements that es not go beyo	the information and the appli	ation in the s ication as fil	subsequent of led, as appro	or additional co opriate, were fi	pies is identica mished.	to that
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4.	Addition	al comments:			•				-	
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/JP2005/003253

Box No. V	Reasoned statement u			to novelty, inventive step	or industrial ap	piicabu
1. Statemen	nt ·			•	•	•
Novelty (N)	Claims	1-18		•	_ YES	
		Claims	·			_ NO
Inventive step (IS)	Claims	·			_ ·YES	
	Claims	1-18		<u> </u>	_ NO	
Industrial applicability (IA)	Claims	1-18			_ YES	
	Ċlaims	• : •			NO	
	<i>:</i>		•	. •		

2. Citations and explanations

The following document has been considered for the purpose of this report:

D1: JP 11-296327 A (HEWLETT-PACKARD CO.) 1999.10.29

D2: JP 5-327748 A (FUJITSU LTD.) 1993.12.10

D3: JP 2003-308194 A (CANON INC.) 2003.10.31

[Claims 1-4,11,12,15,17]

The subject matter of claims 1-4,11,12,15,17 do not involve an inventive step over D1 D2 and D3 for the following reasons.

D1 discloses a computer which generates a random number, encrypts said random number by a public key, and encrypts print data by said random number as a session key(see paragraph [0043]-[0059], Figs.1-4).

D2 discloses the technical feature of creating a key-encrypting-key data from a password, and encrypting a session key by this key-encrypting-key data(see paragraph [0096]-[0116], fig.15).

D3 discloses a host computer which encrypts the user entered password using a digest algorithm, and transmits this encrypted password to a print server(see paragraph [0011]-[0052], figs.1-8).

The skilled person in the art would easily conceive the idea of employing the keyencrypting-key data created from a password in D2 to substitute the public key disclosed in D1 in order to encrypt the session key, and employing the technical feature of transmitting the encrypted password, which is disclosed in D3.

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Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: \boldsymbol{V}

[Claims 5-8,13,14,16,18]

The subject matter of claims 5-8,13,14,16,18 do not involve an inventive step over D1 D2 and D3 for the following reasons.

D1 discloses a printer which receives an encrypted session key and encrypted print data, decrypts said encrypted session key by a secret key, and decrypts said encrypted print data by said session key(see paragraph [0043]-[0059], figs.1-4). And it also discloses that said session key is created at random(see paragraph [0045]).

D2 discloses the technical feature of creating key-encrypting-key data from the user entered password, and decoding an encrypted session key using this key-encrypting-key data(see paragraph [0096]-[0116], fig.15).

D3 discloses a print server which compares the encrypted password contained in a print job with the encrypted password generated inside, and performs printing if both are the same(see paragraph [0011]-[0052], figs.1-8).

The skilled person in the art would easily conceive the idea of employing the key created from the password in D2 to substitute the secret key disclosed in D1 in order to decrypt the encrypted session key, and employing the technical feature of printing data when encrypted passwords are the same, which is disclosed in D3.

[Claims 9,10]

The subject matter of claims 9,10 do not involve an inventive step over D1, D2 and D3 for the same reasons having described above.